

Using Web 2.0 Digital Tools to Encourage Critical and Creative Thinking



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Critical and Creative Thinking

Questioning Strategies and Products using Bloom's Taxonomy

Lower-level Thinking Skills

Knowledge (know and aware)	Comprehension (understand)	Application (use, transfer)
<u>Key words</u> <ul style="list-style-type: none"> • know • recall • name • select • tell • match • state • recite • memorize • identify • list • label • choose • define • recognize 	<u>Key words</u> <ul style="list-style-type: none"> • summarize • define • restate • rewrite • translate • describe • discuss • estimate • illustrate • give examples • extrapolate • edit • use 	<u>Key words</u> <ul style="list-style-type: none"> • apply • construct • plan • utilize • interview • model • develop • organize • construct • role-play • research • solve • classify • manipulate • outline
<u>Sample questions</u> <ul style="list-style-type: none"> • What is...? • Where is...? • How did---happen? • Can you recall? • Can you list? • Who is...? • Who were the main...? • Why did...? • How is..? • Can you list all the words for ..? • How many...? 	<u>Sample questions</u> <ul style="list-style-type: none"> • How would you describe..? • Can you explain what is happening? • How would you summarize..? • What is the main idea..? • How would you illustrate..? • Where will you use....? • Who was main character? 	<u>Sample questions</u> <ul style="list-style-type: none"> • How would you apply this..? • What examples can you find to..? • What is significant? • What questions would you ask in an interview with..? • How would you role-play? • Can you group by..? • How would you solve this?
<u>Sample products</u> <ul style="list-style-type: none"> • practice exercises • vocabulary/grammar quizzes • chart. • facts in isolation • recite a poem • label the cities • match the following... • Match the foods 	<u>Sample products</u> <ul style="list-style-type: none"> • draw pictures, comic strips, graphics etc. • define.... • summarize the.. • retell the story • describe the ... • revise, edit • give a presentation 	<u>Sample products</u> <ul style="list-style-type: none"> • roleplays • artwork • use map, guides, charts, menus, schedules, etc • make models • demonstrations • graphic organizers

Critical and Creative Thinking

Questioning Strategies and Products using Bloom's Taxonomy

Higher-level Thinking Skills

Analysis (examine,relate)	Synthesis (create, design)	Evaluation (judge)
<u>Key words</u> <ul style="list-style-type: none"> analyze relationships parts to whole categorize connect distinguish infer compare/contrast investigate diagram seeing patterns dissect/separate examine review solve 	<u>Key words</u> <ul style="list-style-type: none"> create design hypothesize invent develop compose assemble revise compose compile build generate form predict 	<u>Key words</u> <ul style="list-style-type: none"> judge evaluate critique/criticize justify appraise/assess prioritize convince support conclude defend interpret give opinion give viewpoint recommend
<u>Sample questions</u> <ul style="list-style-type: none"> What is the relationship between..? What evidence can you find..? How is ____ related to ____? How would you distinguish between..? How is this similar? What was the problem with..? 	<u>Sample questions</u> <ul style="list-style-type: none"> What if..? What might happen if you combined..? How would you create a new ..? What solutions might you suggest for..? What if...? What would happen if..? 	<u>Sample questions</u> <ul style="list-style-type: none"> How would you prioritize...? What do you recommend as the solution to the issue? What criteria would you use to assess? What do you think about..? How would you justify..? Do you believe..? What is your conclusion?
<u>Sample products</u> <ul style="list-style-type: none"> conduct survey solve the mystery. analyze a work of art examine a poem.. create a Venn diagram for ... research and compare examine pros/cons 	<u>Sample products</u> <ul style="list-style-type: none"> invent a machine design an ad devise a way to. write a new ending for.. design a new CD cover for a song create a lesson for.. 	<u>Sample products</u> <ul style="list-style-type: none"> debate an issue make a list of criteria to judge a.. write a letter advising.. write an editorial cite sources to justify your point of view rate the....

Type of question?

I. Using your Questions Chart for Bloom's Taxonomy identify at which level each question starter might be.

1. How would you show...?
2. Who were the main...?
3. What is the main idea?
4. How would you summarize...?
5. What approach would you use..?
6. What facts would you select to show...?
7. What conclusions can you draw..?
8. What ideas justify...?
9. How would you test for...?
10. Can you propose an alternative....?

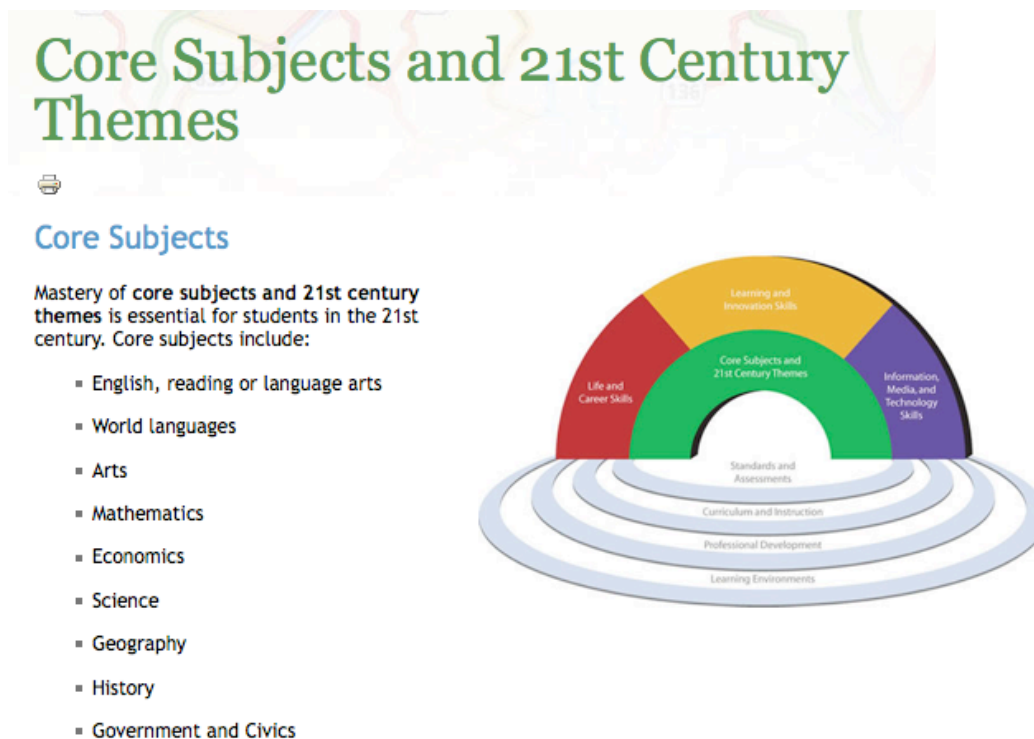
II. You have chosen the family tree exercise and graphic in your book for class discussion today, but you want to ask some more questions. Create a/an

1. evaluation question
2. synthesis question
3. application question
4. analysis question
5. comprehension question
6. knowledge question

21st Century Tools

To learn about 21st Century Learning and Teaching:

1. Partnership for 21st Century Skills: <http://www.21stcenturyskills.org/>:
Keywords: Communications, Critical Thinking and Problem-Solving, Creativity and Innovation, Collaboration, Information and Technology Literacy, Life and Career Skills, Lifelong Learning, Self-Direction, Flexibility, Leadership and Diversity and Global Awareness
2. Route21: <http://www.21stcenturyskills.org/route21/> : a one-stop-shop for 21st century skills-related information, resources and community tools.



3. ACTFL: <http://www.actfl.org>

To collaborate, contribute and learn about 2.0 web tools and other 2.0 information

1. **Wikispaces:** www.wikispaces.com This site shows how to make and use wikispaces. There is also a search in order to look for other wikis.
2. **Toni Theisen Wikispace:** <http://tonitheisen.wikispaces.com/>
3. **LHS French classes:** <http://lhsfrenchclasses.wikispaces.com>
This wikispace shows how to use a wiki as a course management system and collaborative workspace for a French class. (**Toni Theisen's French classes wikispace**)
4. **Classroom 2.0 wiki:** <http://wiki.classroom20.com/> This site is devoted to building resources for the classroom and professional-development use of Web 2.0 and collaborative technologies. It provides a good overview of the technologies, some ideas for lesson plans, and then points you in the direction of more detailed resources.

Resources for podcasting/podcasts/voice recording

1. **Vocaroo:** <http://vocaroo.com/> Record voice messages, oral activities, etc. Embed on site. blog or e-mail it. Free.
2. **Voxopop:** <http://www.voxopop.com/> Create online talkgroups to answer questions share ideas. Free.

Your ideas for these tools.

3. **Voicethread:** <http://voicethread.com/> Group conversations around images, documents and videos. Limited amount of free access.



Your ideas for this tool.

4. **Voki:** <http://www.voki.com> You can your students can be talking Avatars. Free.
- Gizmoz: <http://www.gizmoz.com/> does basically the same thing.



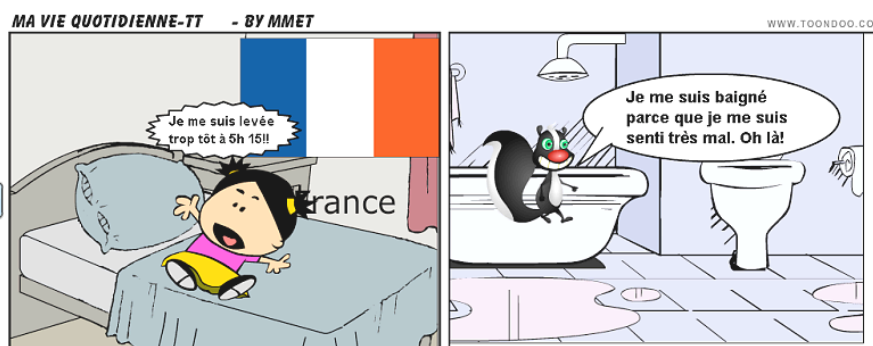
Your ideas for these types of tools.

5. **Wordle:** <http://www.wordle.net/> Generate word clouds from text. for vocabulary, essays, songs, readings, stories, essay starters, etc.



Your ideas for this tool.

6. **Toondoo:** <http://www.toondoo.com/> Check out an easy way for students to write or create a cartoon or cartoon book. See how students synthesize information to create something new.



Your ideas for this tool.

7. **Piclits:** www.piclits.com/ : Users pick an image from selection and then write. Use Freestyle choice in order to write in another language. Free.



Your idea for this tool.

8. **Wallwisher:** (<http://www.wallwisher.com>) *Wallwisher* is an online notice board maker. Discussing a new idea? Taking notes? Giving feedback? Voicing opinion? Asking questions? Wallwisher is like a digital “sticky” note wall.

Welcome to Wallwisher
... a new way to communicate

wallwisher is
an online NOTICE BOARD maker...!!
...it is ideal for **making announcements, wishing people, keeping notes,** and things you can do with Post-Its.. and more...

use it b*cuZ
it's easy
no user registration needed
click-write-post, that's it!
it's effective
say more with images, music, video, and pages
it's intuitive
works like a real notice board
drag, drop, re-arrange posts

next steps
build a wall
it's the next fastest thing to light
view demo wall
see the awesomeness in action
view screenshot
well, if you're that lazy/busy

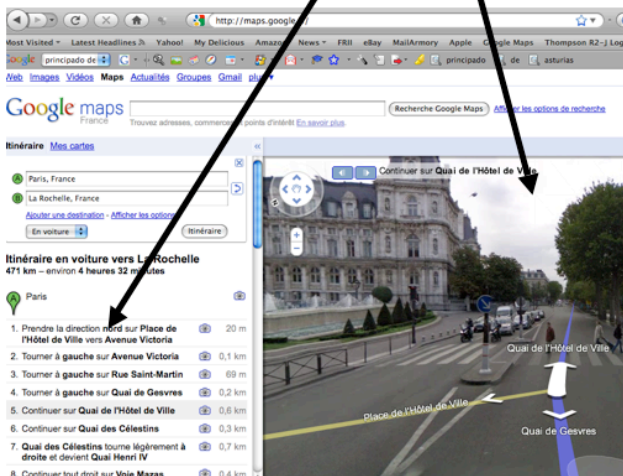
9. Google maps and directions in many languages:

**Now go to maps.google.fr (French).
Repeat the whole process.
Yes, it is all in French.
(You don't have to do just French.
You can find directions for anywhere.)**

Use Google directions in other languages.

How to Slideshow:

<http://www.slideshare.net/dakar95/google-maps-1-get-directions-1840486>

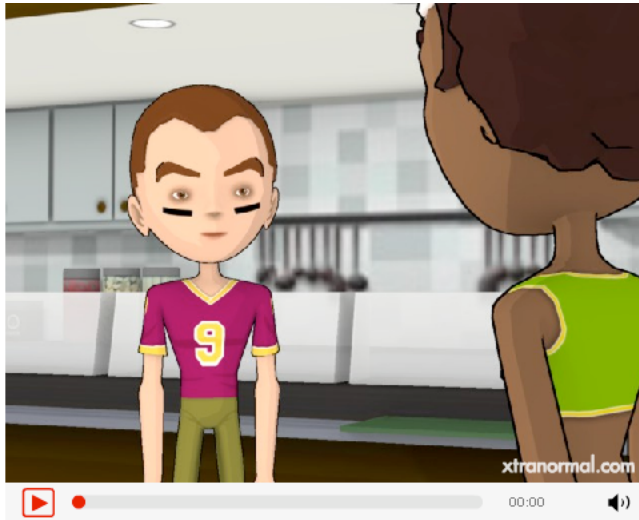


Your idea for this tool.

10. XtraNormal: (<http://www.xtranormal.com>) Make 3D movies. Type text and change to speech movie making. You can also watch, share or embed other movies already made. Choose set, characters and a voice from a range of international accents.



Another Theisen production: Le déjeuner



Your ideal for this tool.

More free tools for storytelling, moving making, book writing, and polling, etc.:

- **Slide.com:** (<http://www.slide.com/>) Use pictures, add captions and music. Very easy to use. In fact, this is the easiest.
- **Animoto:** (<http://animoto.com/>) Use pictures to create a story or share information. Get Animoto Education Edition: unlimited videos for you and your students. Lots like a music video. Think about changing your PowerPoint to jpg and make an Animoto
- **One True Media:** (<http://www.onetruemedia.com/>) helps you turn your photos and video into slideshows and video montages for free. There is a 100 mg free upload per month
- **PhotoPeach:** (<http://photopeach.com/>) Create a lively and vivid way slideshow by moving your photos like a video with your choice of background music, captions on each photo.
- **Devolver:** (<http://www.dfilm.com/live/home.html>) an easy moviemaker with characters and scenes already available. Just add text.

- **Yodio:** (<http://www.yodio.com/>) Use Yodio to add your stories to your photos or presentations by recording to your phone and then uploading pictures.
- **Stupeflix:** (<http://www.stupeflix.com/>) is a site that turns your pictures, videos, and text into videos. I find these one to be the most complicated.
- **Glogster:** (<http://www.glogster.com/>) a crazy mashup of pictures, videos, links, sound. Sound up for a free educational account.
- **Polleverywhere**Ⓢ (<http://www.polleverywhere.com/>) **alive audience polling** uses cell phone to survey
- **Mixbook:** (<http://www.mixbook.com/>)-Make an online book with photos for free.
- **Lingt Language:** (<http://lingtlanguage.com/>) Create online assignments that make engaging and assessing student spoken performance. Use images, voice or video. Students can respond with a voice or written response. Set due dates and give written or voice feedback.

Advice for using these sites with students

1. To protect students I register for sites. Most sites have multiple signins. **But many sites now have an educator's section offering more protection.**
2. For login I use my school email. I also created another gmail account because some sites send out verification of email checks and the school district often has this function blocked.
3. My user name is usually MmeT or mmetheisen
4. My password is always something I never use for any other site.
5. When students put their names on activities they never use their whole or real name. I usually have them use their French name, first letter of last name and the period number: SophieW3
6. When I use the above sites the students' identities are safe. I can monitor and assess their work.

Where can I found this handout, PowerPoint etc?

- a. Go to: <http://tonitheisen.wikispaces.com>
- b. On home page click on Toni Theisen ACTFL TOY Fall 2009 Presentation Link or look at the menu on the left and click on presentations
- c. On this page I will post:
 - a. the handout
 - b. the PowerPoint
 - c. a handout with many more tools to use in class or with students
 - d. a series of “**how to**” sheets that explain step by step how to use the sites from this presentation. Useful to give to students.
 - e. Take a big first step and just let students create. You don't need to have it totally in control. They know these tools better than we do. Enjoy.

